

Attachment 6: Budget

Table Att6-1 presents a summary of the information above in the standard budget format required by the proposal solicitation package.

Table Att6-1: Project Budget

Budget Category		Non-State Share* (Funding Match)	Requested Grant Funding	Total
Task 1	Pre-Construction Activities	\$ 6,735	\$ 11,505	\$ 18,241
Task 2	Drilling, Well Construction, Development	\$ 3,310	\$ 216,099	\$ 219,409
Task 3	Equipping Monitoring Wells	\$ 13,160	\$ 4,890	\$ 18,050
Task 4	Reporting	\$ 10,804	\$ 17,505	\$ 28,309
Task 5	Project Administration	\$ 4,119	\$ -	\$ 4,119
	Grand Total	\$ 38,128	\$ 250,000	\$ 288,128

The non-State share comprises in-kind services and a local contribution from SqCWD. SqCWD will provide in-kind staff time to: prepare the bid package and contractual documents (Task 1); provide field support (Task 2); review logger and bladder pump orders, and install bladder pumps in the wells (Task 3); cover costs for vertical and horizontal surveying of each well, and laboratory costs for water quality sampling, and review the quarterly, draft and final reports (Task 4); and provide project administration (Task 5). Table Att6-2 summarizes the hours, rates and other direct costs SqCWD will provide as in-kind services. These hours were estimated from time spent by staff on a similar project. Total in-kind services amount to \$26,171. This includes \$2,000 per well for vertical and horizontal surveying, and \$200 per well for general mineral and physical water quality analysis under other direct costs.

The estimated consulting, contractor, and equipment costs for this project are \$261,957 (Table Att6-3). This is \$11,957 over the requested grant funding of \$250,000. The difference of \$11,957 will be a local contribution by SqCWD that covers a portion of the equipment purchased under Task 3. The source of these funds can either be from SqCWD's Capital Improvement Program (CIP) FY 2013-2014 budget, or their Operating Contingency Reserves that currently contains \$2.3 million. The total non-State contribution by SqCWD is \$38,128 (\$26,171 in-kind + \$11,957 local contribution).

Consulting, contractor, and equipment costs for the proposed Soquel Creek Water District Monitoring Well Expansion Program were developed from a series of assumptions on the effort involved for each task. Table Att6-3 provides a cost schedule summarizing hours and direct costs that was developed by assigning hours to consulting staff who will be working on the project.

Table Att6-2: In-Kind Services Budget

Soquel Creek Water District In-Kind Services	Engineering Manager	Associate Engineer	Engineering Technician	Assistant Engineer	Field Technician	Labor Total		Other Direct Costs	Total
Rates	\$149.79	\$114.66	\$72.08	\$63.22	\$49.67	Hours	(\$)	(\$)	(\$)
Task 1. Pre-Construction Activities									
1A. Prepare Technical Specifications and Contract Documents	4	8	4	32	0	48	\$ 3,828	\$ -	\$ 3,828
1B. Driller Contracting	2	4	0	24	0	30	\$ 2,276	\$ -	\$ 2,276
1C. Pre-Construction Meeting	1	2	0	4	0	7	\$ 632	\$ -	\$ 632
Subtotal Task 1	7	14	4	60	0	85	\$ 6,735	\$ -	\$ 6,735
Task 2. Drilling, Well Construction, and Development									
2A. Coordination of Field Work	2	0	0	16	0	18	\$ 1,311	\$ -	\$ 1,311
2B. Monitoring of Installation of Five Wells	2	6	0	16	0	24	\$ 1,999	\$ -	\$ 1,999
Subtotal Task 2	4	6	0	32	0	42	\$ 3,310	\$ -	\$ 3,310
Task 3: Equipping Monitoring Wells									
3A. Order and Install Bladder Pumps	1	0	0	4	6	11	\$ 701	\$ -	\$ 701
3B. Order and Install Data Loggers	1	0	0	4	2	7	\$ 502	\$ -	\$ 502
Subtotal Task 3	2	0	0	8	8	18	\$ 1,203	\$ -	\$ 1,203
Task 4. Reporting									
4A. Quarterly Report (Assume One)	2	0	0	2	0	4	\$ 426	\$ -	\$ 426
4B. Draft Report	6	0	0	6	0	12	\$ 1,278	\$ 8,800	\$ 10,078
4C. Final Report	2	0	0	0	0	2	\$ 300	\$ -	\$ 300
Subtotal Task 4	10	0	0	8	0	18	\$ 2,004	\$ 8,800	\$ 10,804
Task 5. Project Administration	18	8	0	8	0	0	\$ 4,119	\$ -	\$ 4,119
TOTAL for 4 Monitoring Wells	41	28	4	116	8	163	\$ 17,371	\$ 8,800	\$ 26,171

Table Att6-3: Consulting, Contractor, and Equipment Budget

Professional Services	Principal Hydrogeologist	Senior Engineer	Project Hydrogeologist		Senior Hydrogeologist		Staff Hydrogeologist		Admin	Labor Total		Other Direct Costs	Contractor and Equipment Costs	TOTALS
	Office	Office	Office	Field Work	Office	Field Work	Office	Field Work	Office					
Rates	\$195	\$155	\$185	\$150	\$155	\$115	\$100	\$100	\$55	Hours	(\$)	(\$)	(\$)	(\$)
Task 1. Pre-Construction Activities														
1A. Prepare Technical Specifications and Contract Documents	0	0	4	0	24	0	24	0	0	52	\$ 6,860	\$ -	\$ -	\$ 6,860
1B. Driller Contracting	0	0	8	0	4	0	0	0	0	12	\$ 2,100	\$ -	\$ -	\$ 2,100
1C. Pre-Construction Meeting	0	0	12	0	0	0	0	0	0	12	\$ 2,220	\$ 325	\$ -	\$ 2,545
Subtotal Task 1										76	\$ 11,180	\$ 325	\$ -	\$ 11,505
Task 2. Drilling, Well Construction, and Development														
2A. Coordination of Field Work	0	0	8	0	12	0	8	0	0	28	\$ 4,140	\$ -	\$ -	\$ 4,140
2B. Monitoring of Installation of Five Wells	0	0	0	24	0	0	20	130	0	174	\$ 18,600	\$ 2,739	\$ 190,620	\$ 211,959
Subtotal Task 2										202	\$ 22,740	\$ 2,739	\$ 190,620	\$ 216,099
Task 3: Equipping Monitoring Wells														
3A. Order Bladder Pumps	0	1	0	0	8	0	0	0	0	9	\$ 1,395	\$ -	\$ 8,741	\$ 10,136
3B. Order and Install Data Loggers	0	1	0	0	8	14	0	0	0	23	\$ 3,005	\$ 457	\$ 3,250	\$ 6,711
Subtotal Task 3										32	\$ 4,400	\$ 457	\$ 11,991	\$ 16,847
Task 4. Reporting														
4A. Quarterly Report (Assume One)	1	0	1	0	16	0	2	0	0	20	\$ 3,060	\$ -	\$ -	\$ 3,060
4B. Draft Report	2	4	6	0	40	0	40	0	0	92	\$ 12,320	\$ -	\$ -	\$ 12,320
4C. Final Report	0	0	1	0	4	0	4	0	4	13	\$ 1,425	\$ 700	\$ -	\$ 2,125
Subtotal Task 4										125	\$ 16,805	\$ 700	\$ -	\$ 17,505
Task 5. Project Administration	0	0	0	0	0	0	0	0	0	0	\$ -	\$ -	\$ -	\$ -
TOTAL for 4 Monitoring Wells										435	\$ 55,125	\$ 4,221	\$ 202,611	\$ 261,957

HOURS ASSUMPTIONS FOR TABLE ATT6-3

TASK 1: PRE-CONSTRUCTION ACTIVITIES

One site visit to finalize well sites/pre-construction meeting,
One week to develop technical specifications and contract documents, and
One day selecting and contracting bidder.

TASK 2: DRILLING, WELL CONSTRUCTION, AND DEVELOPMENT

Two days field coordination and preparation,
Three days drilling and constructing each well (on average),
Four hours developing each well,
One day follow up, and
10-hour work days.

TASK 3: EQUIPPING MONITORING WELLS

Two days designing and ordering data loggers and bladder pumps, and
Two days installing loggers.

TASK 4: REPORTING

Two days for one quarterly report, and
One week for the draft and final report.

Note: hours have been included for travel time based on the time specified in the table under the Travel Assumptions section.

TRAVEL ASSUMPTIONS

Travel costs are based on State of California, Department of Water Resources reimbursement guidelines. For budgeting purposes, we have assumed that the maximum per diem will be claimed, however only actual expenses will be billed during the project. We have included and estimated 8.5% tax on allowed lodging expenses.

	No. of Field days	Trips	Per Diem Cost	Mileage Cost	Travel Time, hours
Task 1: Pre-Construction Activities	1	1	\$131.14	\$194.25	4
Task 2: Drilling, Well Construction, and Development	16	8	\$1,573.68	\$1,554.00	32
Task 3: Equipping Monitoring Wells	2	1	\$262.28	\$194.25	4
Task 4: Reporting	0	0	\$0.00	\$0.00	0
Total			\$1,967.10	\$1,942.50	40

Mileage reimbursement rate	\$ 0.555	per mile
Allowed lodging rate (\$84.00 x 1.085)	\$ 91.14	per day
Meals and incidentals	\$ 40.00	per day

Each round trip is 350 miles, which includes 20 miles for local driving at the project location. Mileage and per diem costs are included under the Other Direct Costs column of Table Att6-3.

Travel time for each round trip is four hours, and has been added under each relevant task.

OTHER DIRECT COSTS, EXCLUDING PER DIEM

Other direct cost, excluding travel and per diem cost, have been limited to Task 4C, which is production of the final report. Ten hardcopies of the final report will be produced at \$70 per report.

EQUIPMENT COSTS

A quote for four data loggers based on estimated screen and pump placement depths is provided on page 9 (total of \$3,249.50). A quote for bladder pumps based on estimated middle of screen depths (total of \$8,741.30) is shown on page 10.

DRILLING COST ASSUMPTIONS

Driller's costs were developed using rates provided on a winning bid for a recent monitoring well drilling project for the District. Table Att6-4 summarizes the costs for four monitoring wells with expected depths as provided in Attachment 4.

Table Att6-4: Estimated Drilling Costs

Site	Item Description	Units	Quant.	Unit Rate	Item Price
All	Project Mobilization	lump sum	1	\$15,000	\$15,000
	Construction Permits	each	4	\$350	\$1,400
	Site to Site Mobilization	each	1	\$1,000	\$1,000
	Per Diem	lump sum	1	\$5,000	\$5,000
		Total Cost All			
Quail Run	Drilling	feet	1,100	\$35	\$38,500
Two wells	Geophysical Logging	lump sum	1	\$2,500	\$2,500
	2" Sch. 80 PVC Blank Casing	feet	980	\$3	\$2,940
	2" Sch. 80 PVC Well Screen	feet	100	\$4	\$350
	3" Sch. 80 PVC Well top and cap	lump sum	2	\$150	\$300
	2" Sch. 80 PVC Cellar	lump sum	2	\$50	\$100
	Gravel Pack	feet	160	\$20	\$3,200
	Sanitary Seal	feet	950	\$23	\$21,850
	Bentonite Transitional Zone	lump sum	2	\$150	\$300
	Development	lump sum	2	\$1,500	\$3,000
	Site Cleanup / Surface Completions	lump sum	2	\$1,500	\$3,000
	Cuttings Disposal	lump sum	2	\$1,000	\$2,000
	Fluid Disposal	lump sum	2	\$1,000	\$2,000
		Total Cost Site #1			\$80,040
Larkin	Drilling	feet	1,240	\$35	\$43,400
Two wells	Geophysical Logging	lump sum	1	\$2,500	\$2,500
	2" Sch. 80 PVC Blank Casing	feet	1,120	\$3	\$3,360
	2" Sch. 80 PVC Well Screen	feet	100	\$4	\$350
	3" Sch. 80 PVC Well top and cap	lump sum	2	\$150	\$300
	2" Sch. 80 PVC Cellar	lump sum	2	\$50	\$100
	Gravel Pack	feet	140	\$20	\$2,800
	Sanitary Seal	feet	1,090	\$23	\$25,070
	Bentonite Transitional Zone	lump sum	2	\$150	\$300
	Development	lump sum	2	\$1,500	\$3,000
	Site Cleanup / Surface Completions	lump sum	2	\$1,500	\$3,000
	Cuttings Disposal	lump sum	2	\$1,000	\$2,000
	Fluid Disposal	lump sum	2	\$1,000	\$2,000
		Total Cost Site #2			\$88,180
Total					\$190,620

Diver Logger Quote



2045 N Forbes Blvd, Suite 103
Tucson, AZ 85745-1444
Phone: (520) 319-0725 Fax: (520) 319-0724
Ecoulombe@slb.com
http://www.slb.com

Price Quote MU-06-12-35434

Jarrod Swett
Soquel Creek Water District
5180 Soquel Drive
Soquel
CA
95073
USA

Issued On: 6/26/2012
Issued By: Eric Coulombe
Phone: (520) 319-0725
Fax: (520) 319-0724
E-mail: Ecoulombe@slb.com

Currency: \$US

Product Name	Description	Qty	Unit Price	Cost
Mini-Diver, range 50 meter DI505	90mm length x 22mm dia., S. S., pressure transducer & temperature datalogger	4	\$525.00	\$2100.00
1Y DDC - 80 meter AS6080	Diver Data Cable - one eye connector assembly	2	\$266.00	\$532.00
1Y DDC - 100 meter AS6100	Diver Data Cable - one eye connector assembly	2	\$288.75	\$577.50

Notes

Sub Total: \$3209.50
Shipping: \$40.00

Please note that this quotation does not include tax. Tax may be added to your invoice. **Total: \$3249.50**

Payment Methods	Bank Transfer Details
• Check or Money Order • Purchase Order	Citi Bank N.A., 399 Park Ave., New York, NY 10022 Bank Account Number: 30656377 ABA / Transit Number: 021 000 089, Swift Code Number: CITIUS33

Schlumberger Water Services' Software Products Include:

- 12 months of free technical support via phone, fax, e-mail, or web (new license purchase only)
- 1 year software maintenance (new licence purchases, or for up-to-date maintenance contracts)*

Schlumberger Water Services' Diver Equipment Products Include:

- Free technical support via phone, fax, e-mail, Webex and video conference
- Free Diver-Office software to program, read and manage all of your Diver data
- 3 year manufacturer's warranty against defects

Footnotes:

- Schlumberger Water Services is not responsible for any withholding taxes
- For bank transfer payments please indicate quote number, company name, and contact information
- For purchase order payments, please allow an additional 2-days for processing
- Overseas orders are only shipped upon receipt of payment in full
- * Applicable for selected Schlumberger Water Services' Software Products only (call us for details)

All quotations are valid for 30 days from quoted date. Consignee responsible for all taxes & duties.
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QED Bladder Pump Quote



Quote No: W-00629, Jun 26, 2012

Prepared For:

Georgina King
510-903-0458
georgina@hydrometricswri.com

SOQUEL CREEK WATER AGENCY
5180 SOQUEL CREEK DRIVE
SOQUEL, CA 95073
USA

Site Reference: Soquel Creek Water District
Grant Proposal

Represented By:

Tom Judy, QED Regional Sales Mgr
530-320-3037
tjudy@qedenv.com

Prepared By:

Carl Ellison
800-624-2026
cellison@qedenv.com

QTY	PART NO.	DESCRIPTION	UM	UNIT PRICE	EXTENSION
2	P1101M	MicroPurge bladder pump, PVC construction with Dura-Flex Teflon bladder. Flow tested and lab certified for purity. 300 maximum depth. 3/8" discharge.	EA	530.00	1,060.00
2	P1101HM	MicroPurge bladder pump, high pressure, PVC construction with Dura-Flex Teflon bladder. Flow tested and lab certified for purity, 600 maximum depth. 3/8" discharge.	EA	565.00	1,130.00
1	37789	PVC inlet screen for P1101 and P1101M bladder pumps. 6" in length, 10 slot (.010) opening size. The use of the inlet screen extends the pump warranty, including the bladder to 10 years.	EA	56.00	56.00
4	37740	3/8" Dura-Flex discharge adapter, 3 length, with reusable tubing lock ring.	EA	27.00	108.00
2	C46H	4" well cap, designed for 1/4" air supply and 3/8" discharge tubing. Standard cap is constructed of anodized aluminum, with vertical clearance of less than 1/4". Includes high pressure air fitting (2301) and dust cover.	EA	94.00	188.00
2	WW-CUSTOM	WELL WIZARD CUSTOM PRODUCT <i>C46 - 4" well cap, designed for 1/4" air supply and 3/8" discharge tubing. Standard cap is constructed of anodized aluminum, with vertical clearance of less than 1/4". Includes dust cover + 2303 ultra high pressure adapter</i>	EA	108.00	216.00
1338	P5000	All polyethylene tubing, twin bonded, tangle-free design. 3/8" OD poly sample tube with 1/4" OD poly air line.	FT	1.90	2,542.20

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Quote No: W-00629, Jun 26, 2012

3	37758	Drop Tube Kit for 1100 series pumps. For 3/8" tube, includes poly pump inlet fitting and one stainless steel weight.	EA	87.00	261.00
873	34115	TUBING POLYETHELENE 3/8 O/D X.056W	FT	0.90	785.70
3	38850	Stainless steel inlet screen for drop tube systems. (Female connection - for stainless steel drop tube kits only).	EA	66.00	198.00
5	35415	Additional stainless steel drop tube weight, 2 long.	EA	62.00	310.00
1342	34324	Poly covered 3/32 stainless steel cable.	FT	1.20	1,610.40
4	8337	Stainless steel cable hardware kit. Includes 2 small stainless steel shackles and clamps for 34324 poly covered cable.	EA	37.00	148.00
4	34700EP	Stainless steel support "L" bracket.	EA	17.00	68.00
4	38388EP	Eyebolt w/ nut, electropolished 316 SS	EA	14.80	59.20
4	40130	NUT #10-24 18-8 SS	EA	0.20	0.80
				TOTAL	8,741.30

TERMS & CONDITIONS: Payment Terms: NET 30

Estimated shipping time 5-10 working days after receipt of Purchase Order, transit time not included. Pricing valid for 30 days. Final delivery date will be determined at time of order. All prices are in U. S. dollars, FOB SHIPPING POINT, USA. A copy of your purchase order, or signed quote, is required at time of order. Payment terms (shown above) are calculated from invoice date, subject to credit approval. A service charge of 1% per month will be applied to all past due invoices. Shipping and handling costs will be prepaid and added to the invoice, estimate available upon request.

Unless shown as separate line item(s), total price shown DOES NOT include applicable sales tax or shipping & handling charges.

After acceptance of an order, no order can be returned without QED approval. Standard equipment, not custom in nature, can generally be returned for credit within 30 days of purchase. The equipment must be unused and in its original packaging and is subject to a 15% restocking fee. Custom equipment or tubing cut to a requested length cannot be returned for credit. All products will be returned freight prepaid to sellers facility.

Invoice To: _____ Ship To: _____

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Quote No: W-00629, Jun 26, 2012

Attn: _____
REQUESTED DELIVERY DATE: ____ / ____ / 2012 Amount Approved: \$ _____
Accepted by: _____ PO Number: _____
Print Name: _____ Company: _____
Title: _____ Date: _____

To place your order, complete the above section and email to: info@qedenv.com (or fax to: 734-995-1170).
(Please note that a hard copy of your PO may be required before shipment.)

When placing orders, please make paperwork out to: QED Environmental Systems, Inc.

Mailing Address:
PO Box 3726
Ann Arbor, MI, 48106

Remit To Address:
W4870
PO Box 7777
Philadelphia, PA 19175-4870

TOTAL BEING APPROVED \$8,741.30